# CR®

# SAFETY DATA SHEET

# 1. Identification

Product identifier Brakleen® Brake Parts Cleaner

Other means of identification

**Product Code** No. 05093 (Item# 1003715)

Recommended use Brake parts cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

**Telephone** 

 General Information
 215-674-4300

 Technical Assistance
 800-521-3168

 Customer Service
 800-272-4620

 24-Hour Emergency
 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2B
Sensitization, skin Category 1B
Carcinogenicity Category 1B

Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes skin irritation. May cause an allergic skin reaction. Causes eye irritation. May cause

drowsiness or dizziness. May cause cancer. Toxic to aquatic life. Toxic to aquatic life with long

lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Material name: Brakleen® Brake Parts Cleaner

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**Response** If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned:

Get medical advice/attention. Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal

corrosive gases such as hydrogen chloride and possibly phosgene.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
tetrachloroethylene	perchloroethylene	127-18-4	90 - 100

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. If skin

irritation or rash occurs: Get medical advice/attention.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth. Get** 

medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Exposed individuals may experience eye tearing, redness, and discomfort. Irritation of nose and throat. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Indication of immediate medical attention and special treatment needed

Symptoms may be delayed.

**General information**IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated

clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

0 . . . . . . . . . . .

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride

and possibly phosgene.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

General fire hazards No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

# Methods and materials for containment and cleaning up

This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

# Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Туре	Value	
tetrachloroethylene (CAS 127-18-4)	Ceiling	200 ppm	
·	TWA	100 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm	
,	TWA	25 ppm	

#### **Biological limit values**

# **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time	
tetrachloroethylene (CAS 127-18-4)	0.5 mg/l	Tetrachloroethy lene	Blood	*	
	3 ppm	Tetrachloroethy lene	End-exhaled air	*	

<sup>\* -</sup> For sampling details, please see the source document.

## **Exposure guidelines**

# US - Minnesota Haz Subs: Skin designation applies

tetrachloroethylene (CAS 127-18-4)

Skin designation applies.

# Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower should be available when handling this product. Provide eyewash station.

# Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves such as: Nitrile. Viton/butyl. Polyvinyl alcohol (PVA). Silver Shield®

Other Wear appropriate chemical resistant clothing.

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

> NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

**Appearance** 

Liquid. **Physical state Form** Liquid. Color Colorless. Odor Irritating. **Odor threshold** 50 ppm Not available.

Melting point/freezing point Initial boiling point and boiling

range

-8.1 °F (-22.3 °C) estimated 250.3 °F (121.3 °C) estimated

Flash point None (Tag Closed Cup)

**Evaporation rate** Very fast. Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits Not available.

Flammability limit - lower

(%)

Flammability limit - upper

(%)

Not available.

13 mm Hg (68 °F (20 °C)) Vapor pressure

Vapor density 5.76 (air = 1)

Relative density 1.62

Solubility(ies)

Solubility (water) 0.02 % (77 °F (25 °C))

Partition coefficient

2.88

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** 100 % estimated Percent volatile

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks. Contact with incompatible materials. When exposed to extreme heat or

hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen

chloride and possibly phosgene.

Strong oxidizing agents. Strong acids. Strong bases. Incompatible materials

Hazardous decomposition

products

Hydrogen chloride. Trace amounts of chlorine and phosgene. Carbon oxides. Halogenated

materials. Carbonyl halides.

SDS US

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. May cause drowsiness and dizziness. Headache. Nausea,

vomiting.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes eye irritation.

**Ingestion** Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea,

and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Exposed individuals may experience eye tearing, redness, and discomfort. Irritation of nose and throat. Skin irritation. May cause redness and pain. May cause an allergic skin

reaction. Dermatitis. Rash.

## Information on toxicological effects

Acute toxicity None known.

Product Species Test Results

Brakleen® Brake Parts Cleaner

Acute Dermal

ATEmix 3228.0974 mg/kg

Oral

ATEmix 2629.0191 mg/kg

Components Species Test Results

tetrachloroethylene (CAS 127-18-4)

Acute Dermal

LD50 Rabbit > 3228 mg/kg

Oral

LD50 Rat 2629 mg/kg

Skin corrosion/irritation Causes skin irritation.
Serious eye damage/eye Causes eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity May cause cancer.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

tetrachloroethylene (CAS 127-18-4) 2A Probably carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

# US. National Toxicology Program (NTP) Report on Carcinogens

tetrachloroethylene (CAS 127-18-4)

Reasonably Anticipated to be a Human Carcinogen.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

# 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Components **Species Test Results** 

tetrachloroethylene (CAS 127-18-4)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 4.73 - 5.27 mg/l, 96 hours

(Oncorhynchus mykiss)

No data is available on the degradability of any ingredients in the mixture. Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Brakleen® Brake Parts Cleaner 2.88 tetrachloroethylene 2.88

No data available. Mobility in soil

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

**Disposal instructions** This material and its container must be disposed of as hazardous waste. Consult authorities before

disposal. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable

regulations.

D039: Waste Tetrachloroethylene Hazardous waste code

F001: Waste Tetrachloroethylene - Spent halogenated solvent used in degreasing

F002: Waste Tetrachloroethylene - Spent halogenated solvent

US RCRA Hazardous Waste U List: Reference

tetrachloroethylene (CAS 127-18-4) U210

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

DOT

**UN** number UN1897

**UN proper shipping name** 

Tetrachloroethylene (RQ = 100 LBS), MARINE POLLUTANT

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk 6.1 Label(s) Packing group Ш

**Environmental hazards** 

Marine pollutant Yes.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, N36, T4, TP1

153 Packaging exceptions Packaging non bulk 203 241 Packaging bulk

**IATA** 

UN1897 **UN** number

**UN proper shipping name** Tetrachloroethylene

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk Ш Packing group 6L **ERG Code** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN number UN1897

UN proper shipping name TETRACHLOROETHYLENE, MARINE POLLUTANT

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk - Packing group |||

**Environmental hazards** 

Marine pollutant Yes. EmS F-A, S-A

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

# 15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

## SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

tetrachloroethylene (CAS 127-18-4)

# **CERCLA Hazardous Substance List (40 CFR 302.4)**

tetrachloroethylene (CAS 127-18-4) Listed.

## **CERCLA Hazardous Substances: Reportable quantity**

tetrachloroethylene (CAS 127-18-4) 100 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

# Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

tetrachloroethylene (CAS 127-18-4)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

Food and Drug Not regulated.

Administration (FDA)

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard Acute toxicity (any route of exposure)

categories Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

Carcinogenicity

No. 05093 (Item# 1003715) Version #: 03 Revision date: 01-29-2018 Issue date: 01-29-2018

Specific target organ toxicity (single or repeated exposure)

#### SARA 302 Extremely hazardous substance

Not listed.

# SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
tetrachloroethylene	127-18-4	90 - 100	

# **US state regulations**

## US. New Jersey Worker and Community Right-to-Know Act

tetrachloroethylene (CAS 127-18-4)

Material name: Brakleen® Brake Parts Cleaner

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#### **US. Massachusetts RTK - Substance List**

tetrachloroethylene (CAS 127-18-4)

#### US. Pennsylvania Worker and Community Right-to-Know Law

tetrachloroethylene (CAS 127-18-4)

## **US. Rhode Island RTK**

tetrachloroethylene (CAS 127-18-4)

## **California Proposition 65**



WARNING: Cancer - www.P65Warnings.ca.gov

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

tetrachloroethylene (CAS 127-18-4) Listed: April 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

tetrachloroethylene (CAS 127-18-4)

# Volatile organic compounds (VOC) regulations

**EPA** 

VOC content (40 CFR

0 %

51.100(s))

Consumer products (40 CFR 59, Subpt. C)

Not regulated

**Inventory name** 

State

Consumer products

This product is regulated as a Brake Cleaner. This product is not compliant to be sold for use in

California and New Jersey. This product is compliant in all other states.

VOC content (CA) 0 % VOC content (OTC) 0 %

#### **International Inventories**

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

EuropeEuropean List of Notified Chemical Substances (ELINCS)NoJapanInventory of Existing and New Chemical Substances (ENCS)YesKoreaExisting Chemicals List (ECL)YesNew ZealandNew Zealand InventoryYesPhilippinesPhilippine Inventory of Chemicals and Chemical SubstancesYes

(PICCS)

TaiwanTaiwan Toxic Chemical Substances (TCS)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date01-29-2018Revision date01-29-2018Prepared byAllison Yoon

Version # 03

Further information CRC # 491G/1002481

Material name: Brakleen® Brake Parts Cleaner

On inventory (yes/no)\*

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

HMIS® ratings Health: 2\*

Flammability: 0 Physical hazard: 0 Personal protection: B

NFPA ratings

Health: 2 Flammability: 0 Instability: 0

**NFPA** ratings



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